# Technology Focus Area 1 – Student Learning

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 1: Develop and enhance quality educational/instructional programs to improve performance and enable students to meet their Person(s)al, academic, and career goals.

**Objective:** **Provide opportunities to students to think critically, collaborate, create, and communicate in a digital world.**

Strategy 1: 100% of students will be provided opportunities for learning the 21st century skills; communication, collaboration, creativity and critical thinking by 2016.

(CSIP 1,) (MSIP 6.1, 6.2, 6.3, 6.4, 6.8, 7.1, 7.2, 7.3) (METSP S1, S2)

Progress Measures: Board approved Curriculum documents

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step / Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Provide personalized virtual learning opportunities to extend learning beyond the school day (self-directed, collaborative, etc.) | 2013-2016 | Educational Technology Specialist (ETS) working in conjunction with content leaders and curriculum project teams, gifted teachers | NONE | N/A |
| Expand online learning opportunities to students. | 2013-2016 | CAO, CIO, Director of Student Learning | ????? | N/A |
| Use educational technology specialists to train curriculum writers and content leaders on quality technology integration | 2013-2016 | ETS |  |  |
| ETS will train curriculum writers in the use of a collaborative co-authoring tool | 2013-2016 | ETS |  |  |
| ETS will develop technology rich activities to be include in 25% of curriculum annually. |  |  |  |  |
| Provide a technology curriculum for all PK-12 students \*CAO agrees wutg PK-8, 9-12 through should be embedded | 2013-2016 | CIO, Director of Student Learning ETS and content leaders, curriculum writers | TBD | N/A |
| All students will take at least one online course prior to graduation | 2014-2015 | CAO | NONE |  |
| Incorporate inquiry based , problem solving and the use of social learning and media tools into curriculum | 2013-2016 | Director of Student Learning and content leaders, ETS | $7500 annually (50 curricula at $150 per) | Local Funds |

# Technology Focus Area 1 – Student Learning

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 1: Develop and enhance quality educational/instructional programs to improve performance and enable students to meet their Person(s)al, academic, and career goals.

**Objective: Prepare high school students for career opportunities**

Strategy 2: All high schools students will be given the opportunity to obtain real-world experience and/or certification in a business related job field.   
(CSIP 1,) (MSIP 6.1, 6.2, 6.3, 6.4, 6.8, 7.1, 7.2, 7.3) (METSP S1, S2)

Progress Measures:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step / Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Review and revise high school Business Department program to provide entry level career based certification | 2013-2014 | CIO, Director of Student Learning, Business Dept. Chairs and Content Leaders, | NONE | N/A |
| Develop a job mentoring and intern program for juniors and seniors | 2014-2015 | Director of Student Learning, Business DC | NONE | N/A |
| Implement a bio-medical curriculum at each high school using the PLTW model | 2014-2015 | Director of Student Learning | $25K | Local Funds, Grant |

# Technology Focus Area 1 – Student Learning

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 1: Develop and enhance quality educational/instructional programs to improve performance and enable students to meet their Person(s)al, academic, and career goals.

**Objective: Ensure students have a deep understanding of the content through application**

Strategy 3: 100% of students will demonstrate application of knowledge using technology   
(CSIP 1,) (MSIP 6.1, 6.2, 6.3, 6.4, 6.8, 7.1, 7.2, 7.3) (METSP S1, S2)

Progress Measures: Student portfolios, Sample locally developed assessments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step / Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Implement use of technology enhanced local common assessments | 2014-2015 | Director of Assessment | ??????? | Local Funds |
| Students will use digital portfolios for demonstration of student work | 2013-2014 | Director of Early Childhood, Guidance Counselors | $10K | Local Funds |
| Students will use technology tools for projects to show understanding of content | 2013-2016 | Director of Student Learning | NONE | N/A |
| Administer the district technology test to 6th graders in the first quarter of the school year and 8th graders at the end of the 4th quarter | 2013-2016 | ITS | NONE | N/A |

# echnology Focus Area 2 – Teacher Preparation

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 2: Recruit, attract, develop, and retain highly qualified staff to carry out the LEA (local educational agency)/District mission, goals, and objectives.

**Objective: Increase technology literacy and implementation strategies on an annual basis across all curriculums.**

Strategy 1:100% of administrators and teachers will have technology professional development a minimum of 5 hours per year (CSIP 1, 4, 5) (MSIP 6.4, 6.7) (METSP T1)

Progress Measures: Professional development tracking of hours

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Provide a professional day annually dedicated to technology | 2013-2014 | Director of Adult Learning | $2500 | Local Funds |
|  | 2013-2016 | Director of Adult Learning | $2500 | Local Funds |
| Implement a competency based technology professional development programto include independent and blended learning | 2014-2015 | CIO, Director of Adult Learning | ??????? |  |
| Provide professional development on student blended-learning strategies | 2013-2016 | Director of Adult Learning, ETS | NONE | N/A |
|  | 2014-2016 | Certificated staff, Director of Adult Learning | NONE | N/A |

# Technology Focus Area 2 – Teacher Preparation

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 2: Recruit, attract, develop, and retain highly qualified staff to carry out the LEA (local educational agency)/District mission, goals, and objectives.

**Objective: Ensure the District employs and retains technology proficient staff to facilitate 21st century learning for students**

Strategy 2: 100% of instructional staff will be assessed and evaluated on technology competency skills

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.1, 6.3) (METSP T1)

Progress Measures: Self-evaluations, New hires technology assessments and Teacher/Administrator evaluations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| A technology assessment will be ncluded as part of the hiring process | 2014-2015 | Chief Human Resource Officer | NONE | N/A |
| Teacher literacy and integration skills will be monitored and assessed through the teacher evaluation tool. | 2014-2015 | Chief Human Resource Officer | NONE | N/A |
| Annually all certified staff will take part in a technology skills and integration self-evaluation | 2013-2016 | CIO, Admin | NONE | N/A |
| All teachers will participate in a self-evaluation and reflection, including 1 artifact, on technology integration skills | 2013-2014 | Chief Human Resource Officer | NONE | N/A |

# Technology Focus Area 2 – Teacher Preparation

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 2: Recruit, attract, develop, and retain highly qualified staff to carry out the LEA (local educational agency)/District mission, goals, and objectives.

**Objective: Prepare instructional staff on new technology enhanced instruction and learning environments**

Strategy 3: Teachers will be provided opportunities for learning technology integrated 21st century instruction.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.1, 6.3) (METSP T1)

Progress Measures:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Increase the number of staff that participate in trainings and self-report the use of BYOD or student owned devices in the classroom | 2013-2016 | ETS | NONE | N/A |
| Increase the number of staff that participate in trainings and self-report the use flipped classrooms. | 2013-2016 | ETS | NONE | N/A |
| Instruct all certificated staff on the ICT skill area 21st Century skills framework for preparing students for college and career | 2013-2014 | Director of Adult Learning | $48K | Local Funds |
| Embed technology professional development in Common Core trainings. | 2013-2016 | Director of Student Learning | ????????? | Local Funds |

# Technology Focus Area 3 – Administration, Data Management, Communication Process

The following tables list the 2007- 2010 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 4: Promote, facilitate and enhance parent, student and community involvement in LEA/District educational programs.

**Objective: To increase stakeholder communication and access to District information using technology.**

Strategy 1: Implement 3 new technology resources to provide the community access to relevant information regarding school matters.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.4, 7.5) (METSP A1)

Progress Measures:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| The District will create web based data dashboards for internal and external audiences identifying key performance indicators | 2013-2016 | IS Manager, Data Information Specialist | NONE | N/A |
| Implement the Student Information System parent portal for elementary students/parents to gain access to student records | 2013-2014 | Director of Assessment and Program Eval, IS Manager | NONE | N/A |
| Implement a learning management system (LMS) for students/staff/parents | 2013-2014 | CIO, ETS | $15K annually | Local Funds |
| Create an awareness campaign for the community regarding Common Core and 21st century skills (what school looks like today) | 2013-2014 | CAO and CIO | NONE | N/A |
| Communicate how technology is used to support instruction in the classroom 2 times per year | 2013-2016 | CIO, Communication Manager | $5K annually for mailings | N/A |

# Technology Focus Area 3 – Administration, Data Management, Communication Process

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 5: Govern the LEA/District in an efficient and effective manner providing leadership and representation to benefit the students, staff, and patrons of the district.

**Objective: To provide adequate funding to support the technology program**

Strategy 2: To include priority funding each budget year for recurring technology costs and providing equity among grade levels.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.2, 7.5) (METSP S1 T1 A2)

Progress Measures:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| The annual technology budget will reflect line items that cover the maintenance and support costs (TCO) of technology assets. | 2013-2016 | CIO, Director of Finance, CFO | NONE | N/A |
| The annual technology budget will include an allocation to address the gaps in meeting the district defined Minimum Classroom Technology Standards | 2013-2016 | CIO, Director of Finance, CFO | NONE | N/A |
| Identify and participate in 2 competitive grant opportunities per fiscal year relating to technology and/or technology professional learning | 2013-2016 | CIO and Academic Team members | NONE | N/A |
| District will participate in the USAC E-rate funding on an annual basis | 2013-2016 | CIO | NONE | N/A |

# Technology Focus Area 3 – Administration, Data Management, Communication Process

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 5: Govern the LEA/District in an efficient and effective manner providing leadership and representation to benefit the students, staff, and patrons of the district.

**Objective: Imporve control and more information collection of technology operations.**

Strategy 3: Implement technology systems for inventory control, user access and mobile device management

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 7.5) (METSP A2)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Implement an integrated cloud-based ITAM/ITSM (IT assets and service management) system | 2013-2014 | CIO, Sr. IT Manager | $10K annually | Local Funds |
| Implement the use of RFID tagging for inventory control of mobile devices | 2013-2014 | CIO | $15K | Local Funds |
| Implement an Identity management system for user access control | 2013-2014 | CIO, Sr. IT Manager | $25K ??? | Local Funds |
| Implement a mobile device management system for deploying, provisioning and securing mobile devices | 2013-2014 | CIO, Sr. IT Manager | $25K ??? | Local Funds |

Progress Measures:

# Technology Focus Area 4 – Resource Distribution and Use

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 3: Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

**Objective: Enable all students’ access to current technology to support student learning.**

Strategy 1: 100% of all students will have access to technology in and out of school

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.4) (METSP R1)

Progress Measures: Student surveys, network reporting, electronic resources inventory

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Close the technology gap for students without access to technology outside of the classroom | 2013-2016 | CIO | TBD | Local Funds |
| Promote and support BYOD | 2013-2016 | CIO, ETS | NONE | N/A |
| Institute a student computer loan program | 2013-2014 | CIO | NONE | N/A |
| Move towards electronic textbooks and resources | 2013-2016 | CIO, Director of Student Learning | NONE | N/A |
| Provide all technology tools needed to implement the Common Core (i.e. digital media creation, presentation tools) | 2013-2015 | CIO | $25K ???? | Local Funds |

# Technology Focus Area 4 – Resource Distribution and Use

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 3: Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

**Objective: Provide above adequate network resources to support and advancement of technology-based learning and assessments.**

Strategy 2: Increase availability and capacity of networks by 100%

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.4, 8.1, 8.2) (METSP R1)

Progress Measures: A review of technology resources inventory by building.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Proactive improvement of bandwidth to support higher device access (user-ship), and more network-based services. | 2013-2015 | CIO, Sr. Network Engineer | $150K annually | E-Rate  Local Funds |
| Expand wireless network to support simultaneous access for all users | 2013-2016 | CIO, Sr. Network Engineer | $80K annually | Local Funds |
| Change current topology from point-to-point to multi-point for better reliability and business continuity | 2013-2014 | CIO, Sr. Network Engineer | NONE | N/A |
| Increase all building links to 1GB | 2014-2015 | CIO, Sr. Network Engineer | TBD | E-Rate |
| Provide fiber to Daniel Boone, Warren and Heritage Landing | 2013-2014 | CIO, Sr. Network Engineer | TBD | Local Funds |
| Secure a secondary ISP connection | 2014-2015 | CIO, Sr. Network Engineer | TBD | Local Funds |

# Technology Focus Area 4 – Resource Distribution and Use

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each Strategy and activity and reported on the status.

CSIP Goal 3: Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

**Objective: Develop a plan to meet district-defined instructional technology standards and implement a technology assets replacement cycle.**

Strategy 3: Revise the current technology life-cycle plan to include procurement and replacement for instructional audio/video technologies and mobile devices.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.4, 8.1, 8.2) (METSP R1)

Progress Measures: A review of technology resources inventory by building.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Strategy Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Develop a refreshment /replacement cycle for interactive and projection equipment | 2013-2014 | CIO, Sr. IT Manager | NONE | N/A |
| Maintain a four-year computer replacement for mobile devices and a 5-year cycle for desktops | 2013-2016 | CIO, Sr. IT Manager, building technicians | FY2014 - ????  FY2015 - ????  FY2016 - ???? | Local Funds, Business Grant, PTO |
| Replace all laptops and desktops that exceed the specified replacement cycle | 2013-2015 | CIO, Sr. IT Manager | TBD | Local Funds, Business Grant, PTO |
| Implement VDI (virtual desktop infrastructure) system where feasible | 2013-2014 | CIO, Sr. Network Engineer | $100K ???? | Local Funds |

# Technology Focus Area 5 – Technical Support

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 3: Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

**Objective: Provide resources to support the District in using technologies to enhance and engage students.**

Strategy 1: The District will identify and provide the necessary technical support resources to ensure high levels of service.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.4, 8.1, 8.2) (METSP TS1)

Progress Measures: Analysis of Annual Technology survey regarding support and service.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Provide professional development for technicians to increase skill level in the support of tablet and multi-media technologies | 2013-2016 | Sr. IT Manager, ETS | $3K annually | Local Funds |
| Technology team will be trained in various aspects of the ITIL (Information Technology Infrastructure Library) service management framework | 2013-2015 | CIO | $5K | Local Funds |
|  |  |  |  |  |

# Technology Focus Area 5 – Technical Support

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 3: Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

**Objective: Provide resources to support the District in using technologies to enhance and engage students.**

Strategy 2: The District will increase the instructional technology support resources to ensure high levels of integration.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 6.4, 8.1, 8.2) (METSP TS1)

Progress Measures: New job descriptions for ITS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Restructure the ITS (instructional technology specialists) time and duties (currently a stipend certified teacher) | 2013-2014 | CIO and CHRO | NONE | N/A |
| Provide weekly building support through the use of technology proficient teacher leaders | 2013-2016 | ????? | Stipends???? | Local Funds |
| Increase the full-time support for instructional technology for each building | 2014-2015 | CIO and CHRO | TBD | Local Funds |

# Technology Focus Area 5 – Technical Support

The following tables list the 2013 - 2016 Technology Goals, Strategies, and Activities.

The Committee reviewed each strategy and activity and reported on the status.

CSIP Goal 3: Provide and maintain appropriate instructional resources, support services, and functional and safe facilities.

**Objective: Provide learning spaces that promote 21st century learning (e.g. collaboration and technology infused)**

Strategy 3: To provide technology furniture and fixtures to support 21st century learning.

(CSIP 1, 2, 3, 4, 5, 6) (MSIP 8.1, 8.2) (METSP TS1)

Progress Measures:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Action Step/ Activity** | **Time Line** | **Responsible Person(s)** | **Additional Resource/Costs** | **Funding Source** |
| Provide charging stations in each middle and high school for student owned devices | 2013-2016 | Sr. IT Manager and Director of Facilities and Operations | TBD | Local Funds |
| Refresh (as needed) classroom furnishings with non-traditional furniture that supports a flexible learning space (e.g. configurable furniture) | 2013-2016 | Director of Purchased Services | TBD | Local Funds |